

FIG. 1A

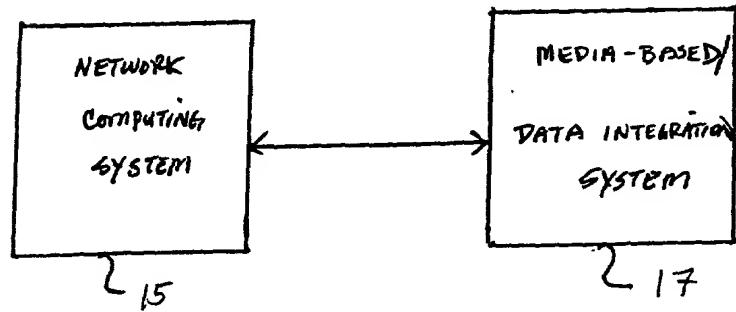
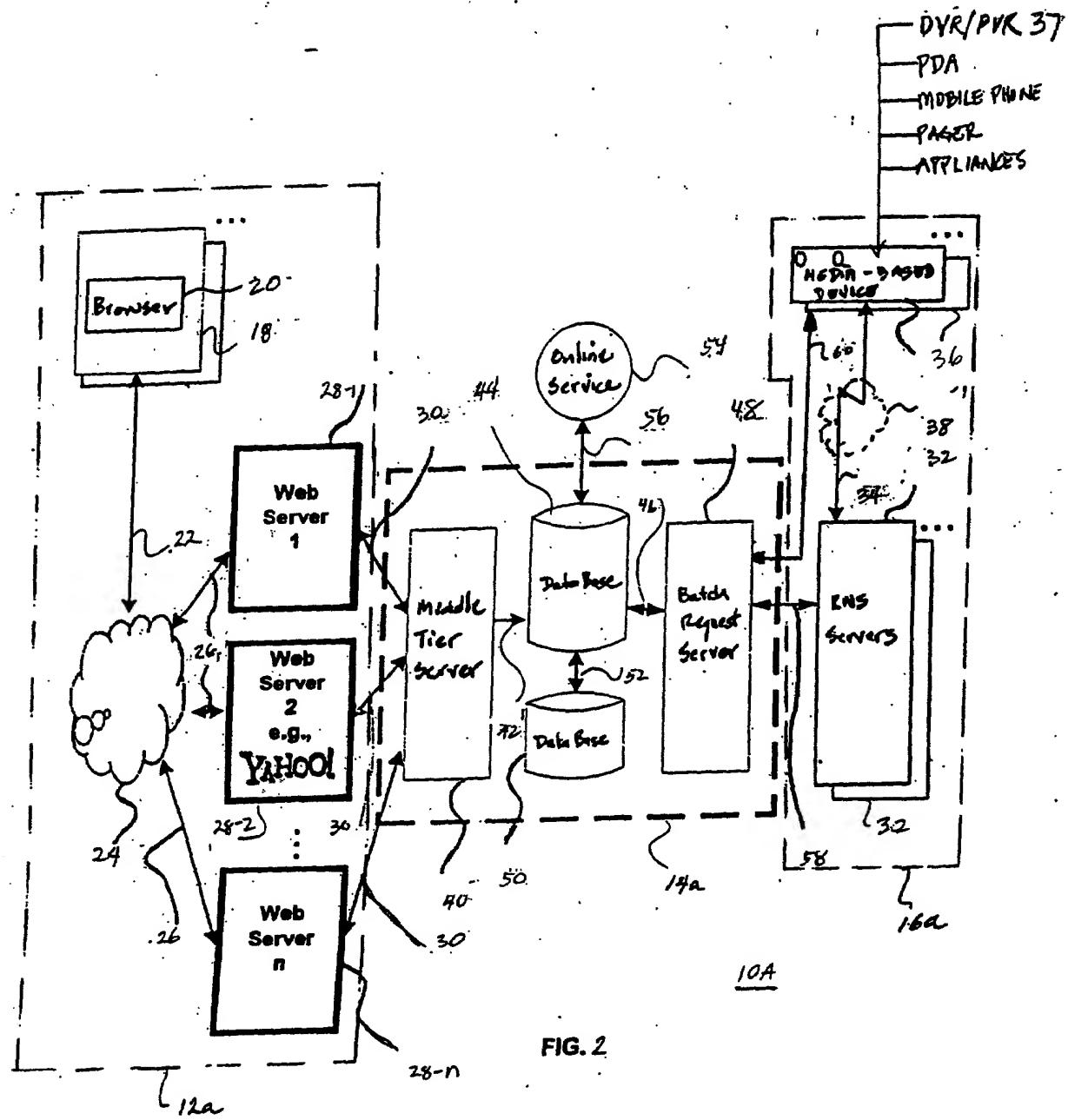


FIG. 1B



18/28/40/32/48/36

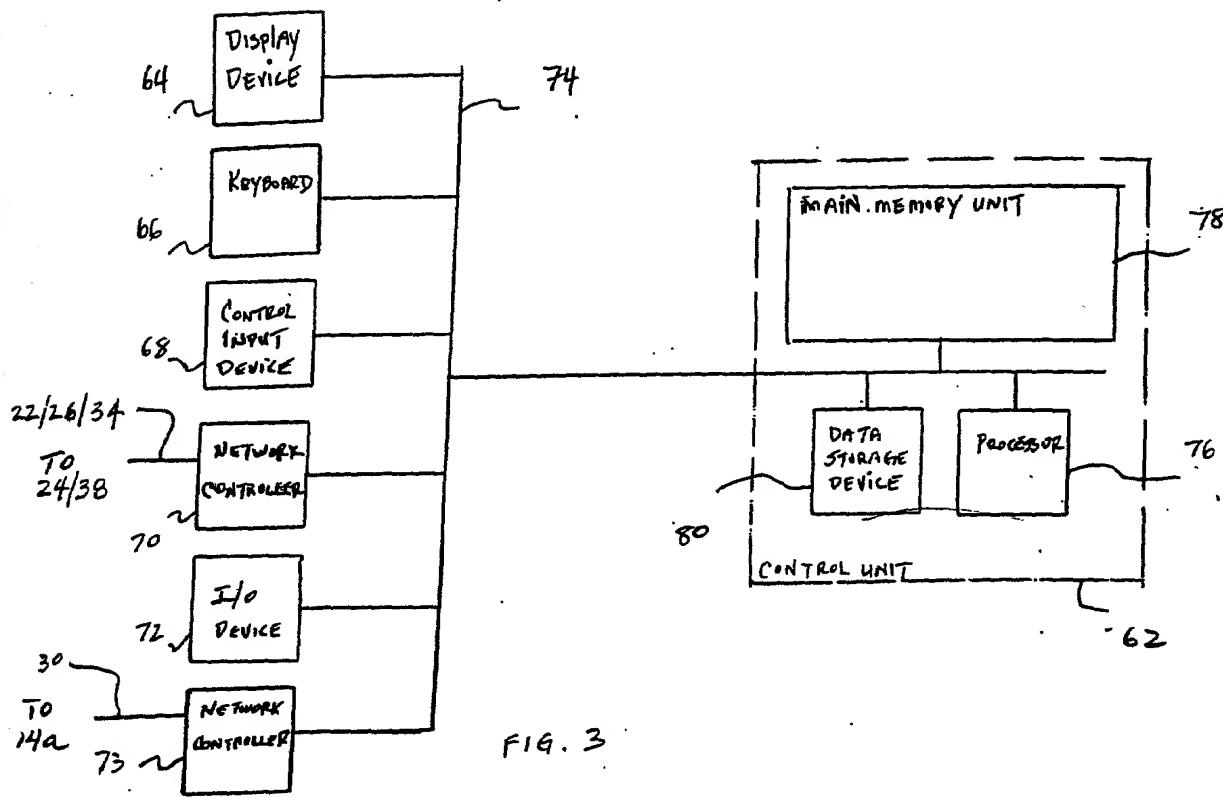


FIG. 3

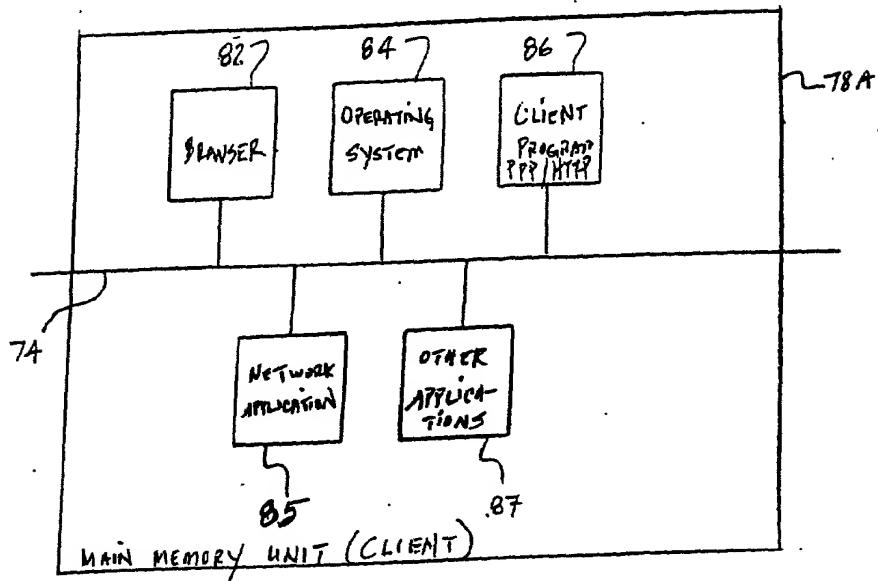


FIG. 4A

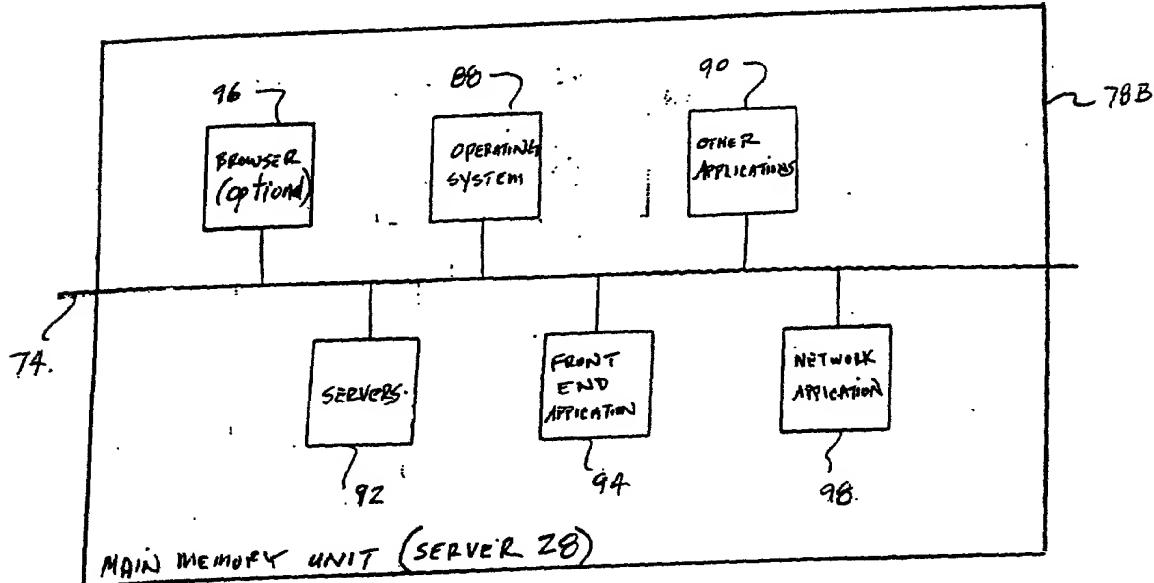


FIG. 4B

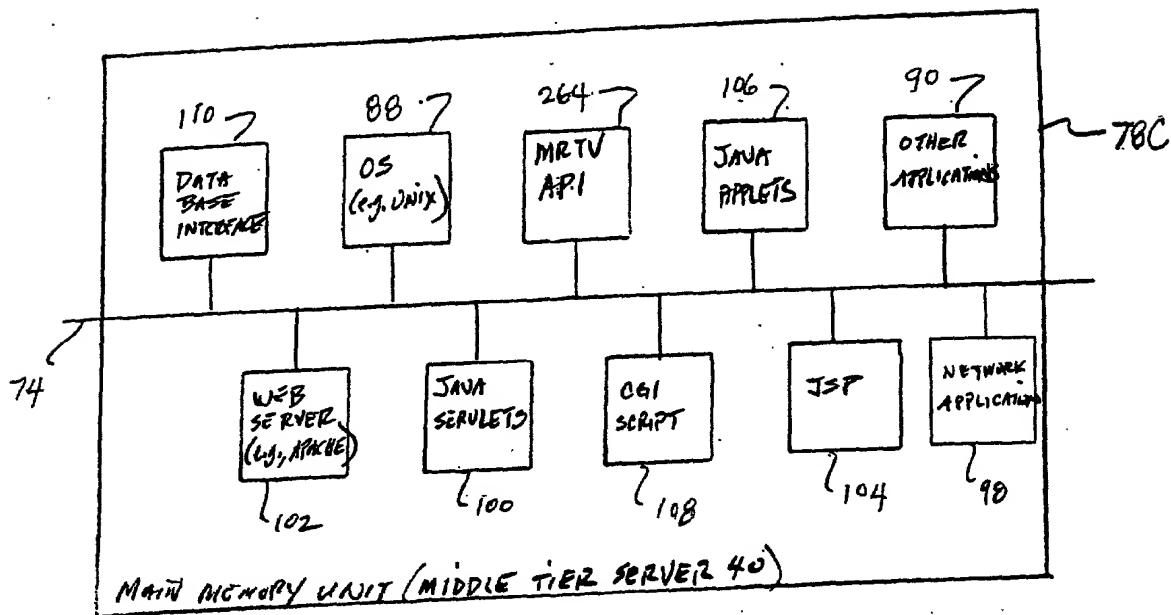


FIG. 4C

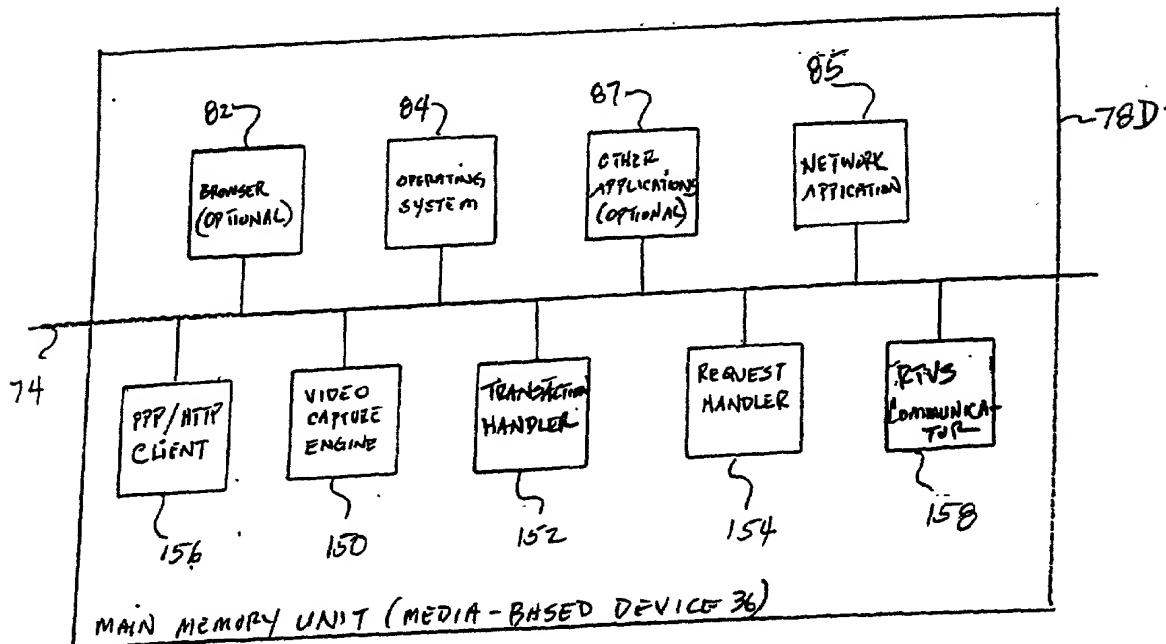
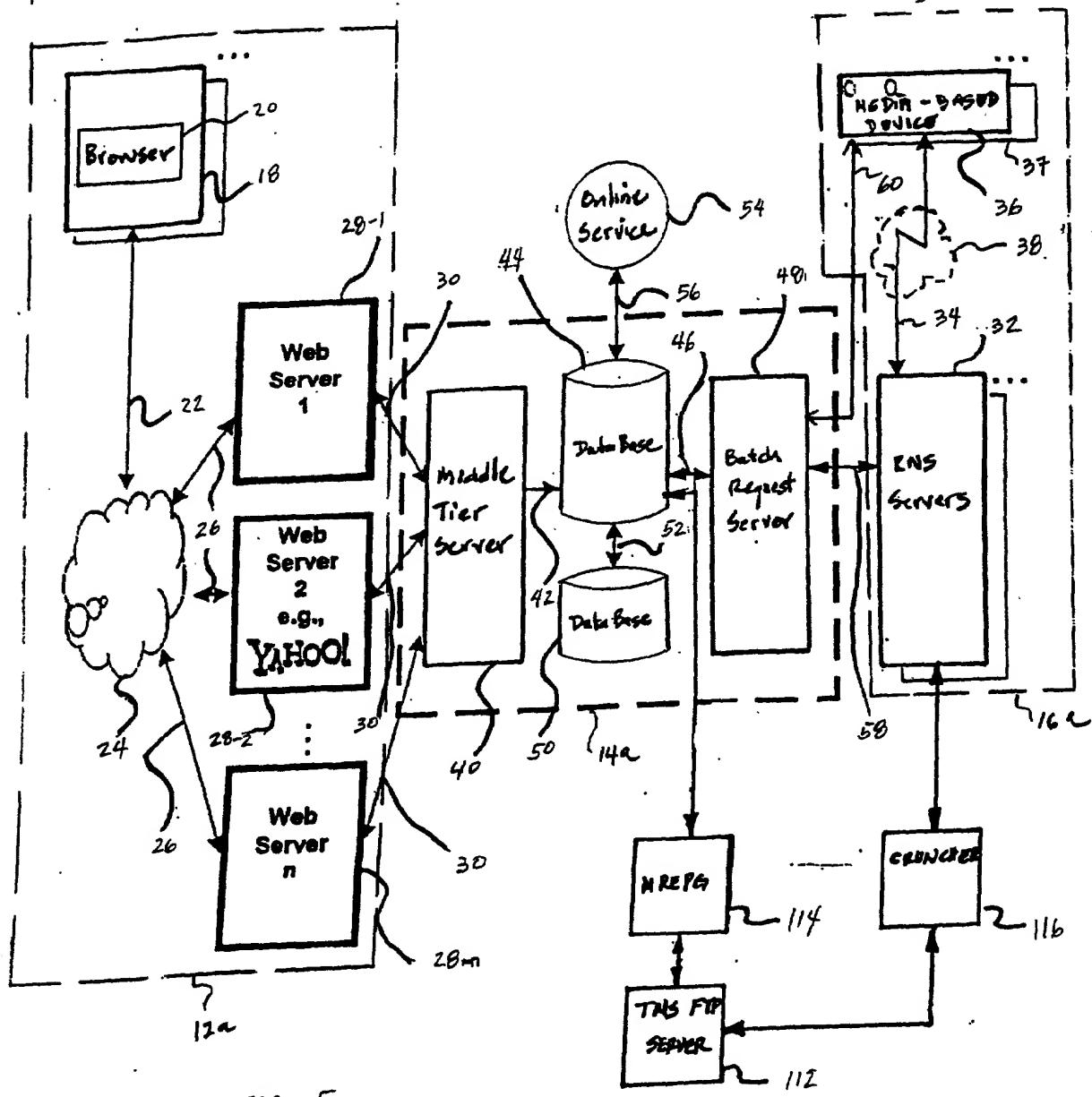


FIG. 4D



Title: Method and System for Remote Television  
Replay Control  
Applicants: Millard E. Sweatt, III, et al.  
Docket No.: 22407-05390 US

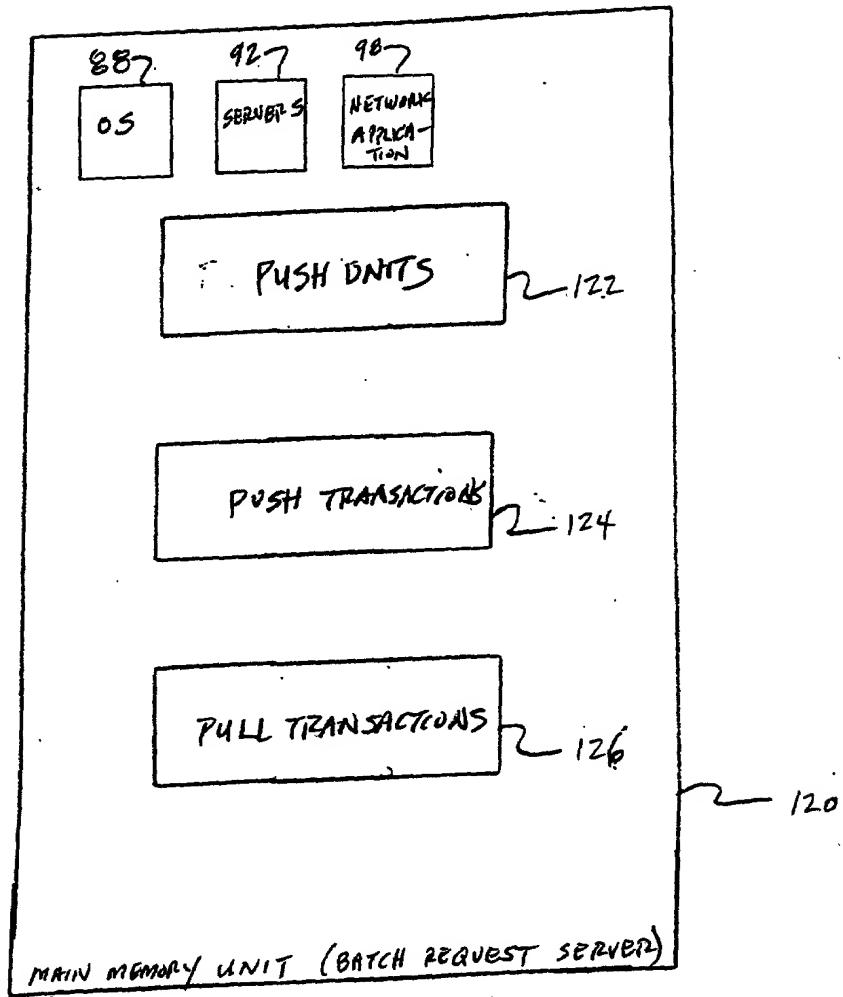


FIG. 6

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Applicants: Millard E. Sweatt, III, et al.  
Docket No.: 22407-05390 US

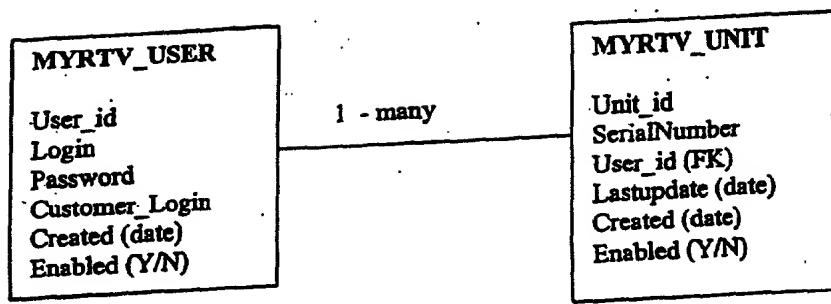


FIG. 7

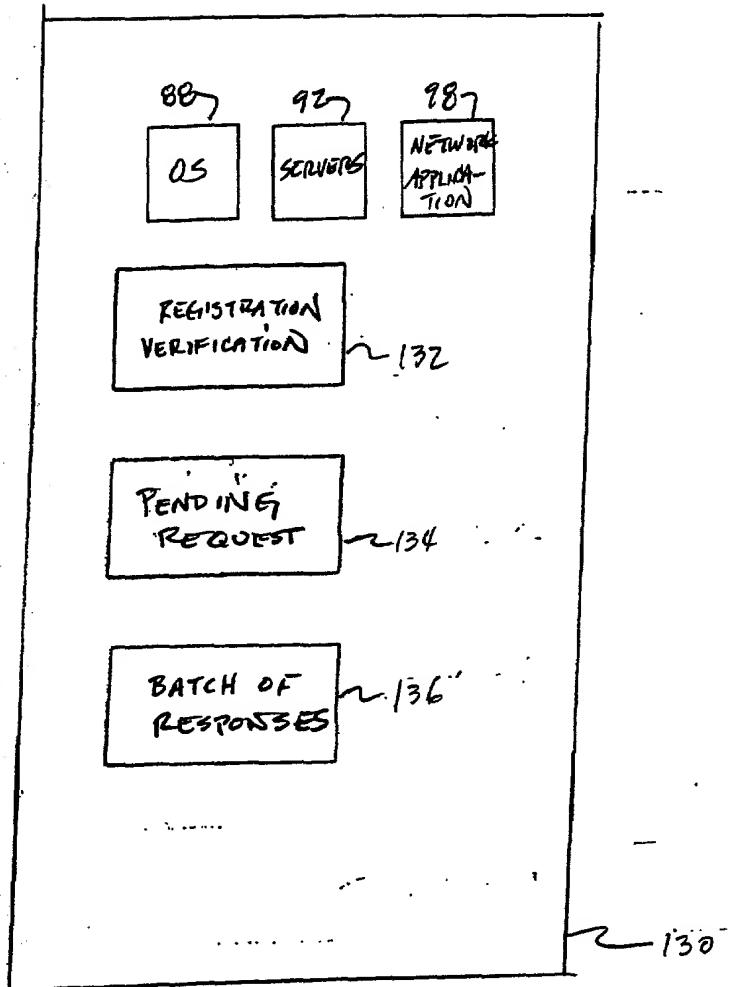


FIG. 8

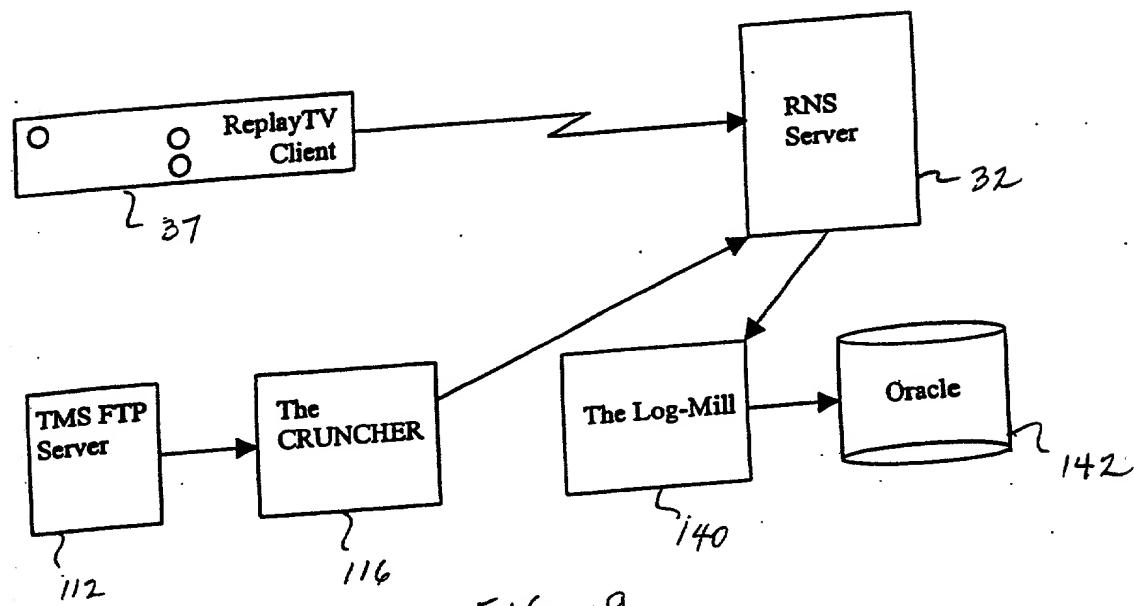
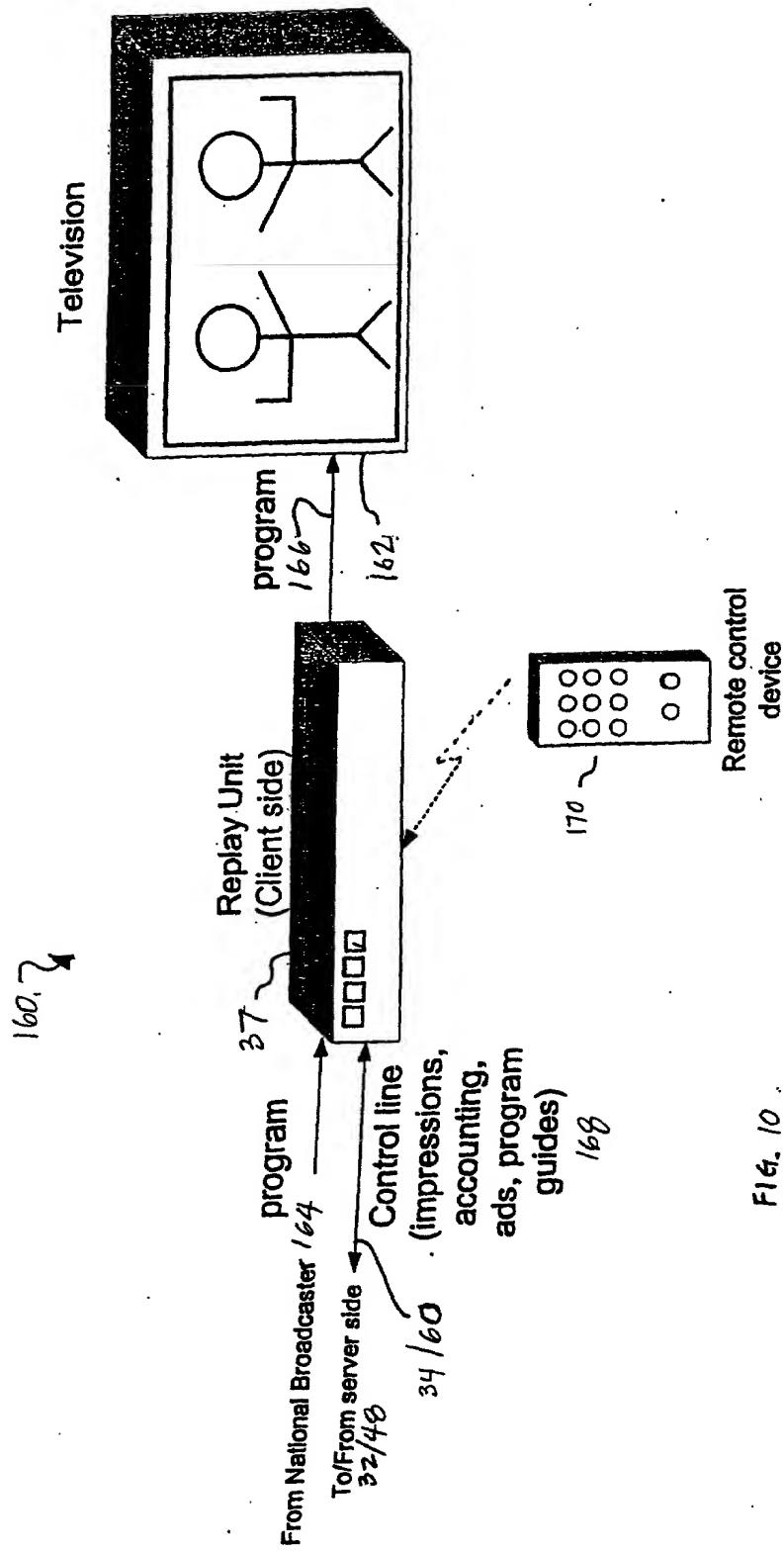


FIG. 9



Title: Method and System for Remote Television  
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Docket No.: 22407-05390 US

my  replaytv

marketing/promotional information

user name:   182

password:  184

remember my password [I forgot my password](#)

Are you a new user to the myreplaytv website?  180

[Help](#) [Contact us](#)

FIG. 11

Fig. 12A

<p>View description</p> <p>Record</p> <p>Record all episodes</p> <p>Record - change options</p> <p>Find all episodes</p> <p>close</p>	<p>View description</p> <p>Record future episodes</p> <p>Record - change options</p> <p>Find all episodes</p> <p>why can't I record?</p> <p>close</p>	<p>2 KTVU</p> <p>4 KRON</p> <p>5 KPIX</p> <p>6 FAM</p> <p>7 KGO</p> <p>8 KRCB</p> <p>9 KOED</p> <p>10 KDTV</p> <p>11 KICU</p> <p>12 KBWK</p> <p>13 KBWB</p> <p>14 CNN</p> <p>15 DISH</p> <p>16 DW</p>	<p>yesterday 8/17</p> <p>today 8/18</p> <p>Sat 8/19</p> <p>Sun 8/20</p> <p>Mon 8/21</p> <p>Tue 8/22</p> <p>Wed 8/23</p> <p>Thu 8/24</p> <p>Fri 8/25</p>	<p>4 pm</p> <p>5 pm</p> <p>6 pm</p> <p>7 pm</p> <p>8 pm</p> <p>9 pm</p> <p>10 pm</p> <p>11 pm</p> <p>12 am</p>	<p>1-15</p> <p>16-30</p> <p>31-45</p> <p>46-60</p> <p>61-75</p> <p>76-90</p> <p>91-105</p> <p>106-120</p> <p>121-145</p> <p>146-</p>
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218 ~

222 ~

220 ~

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214

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FIG. 12B

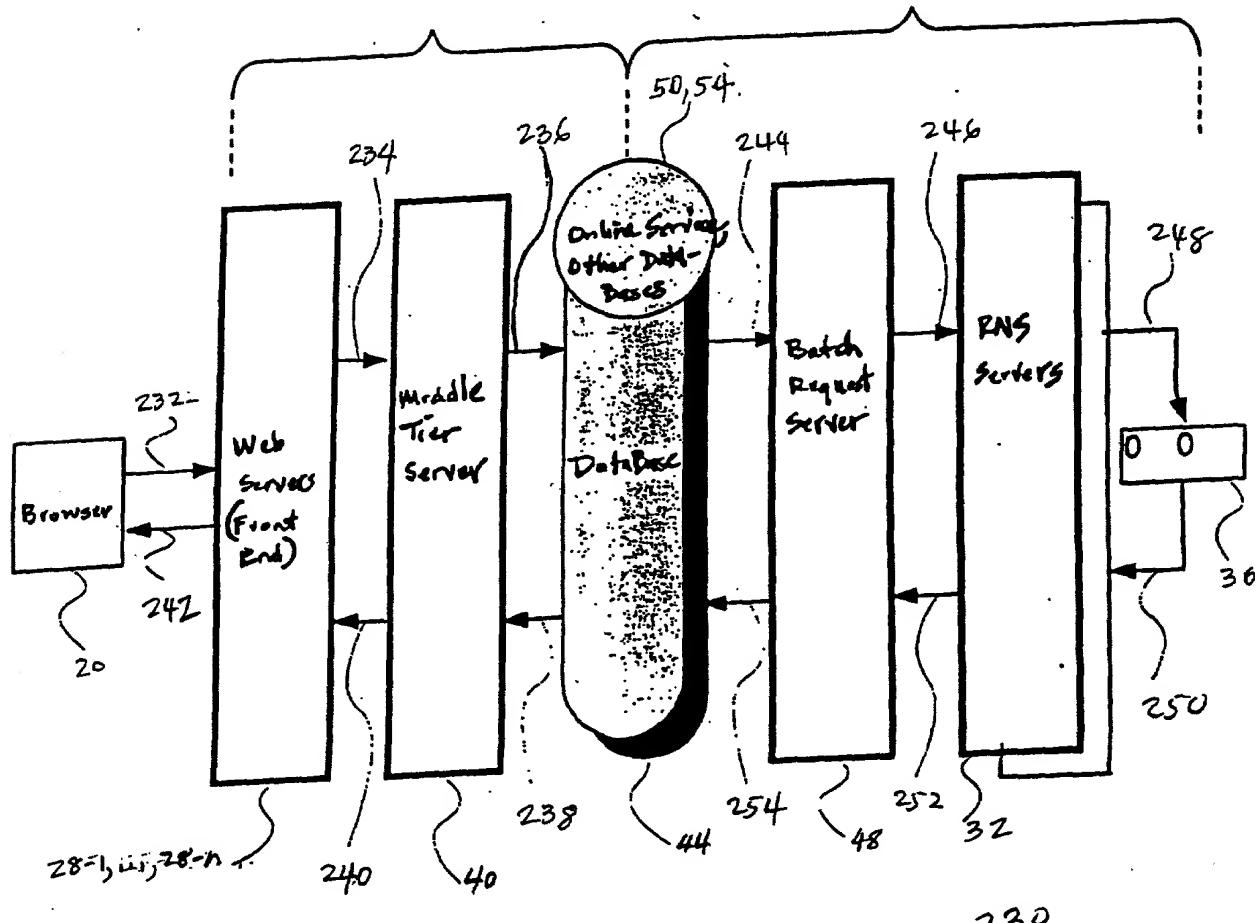


FIG. 13A

SEQUENCE DIAGRAM

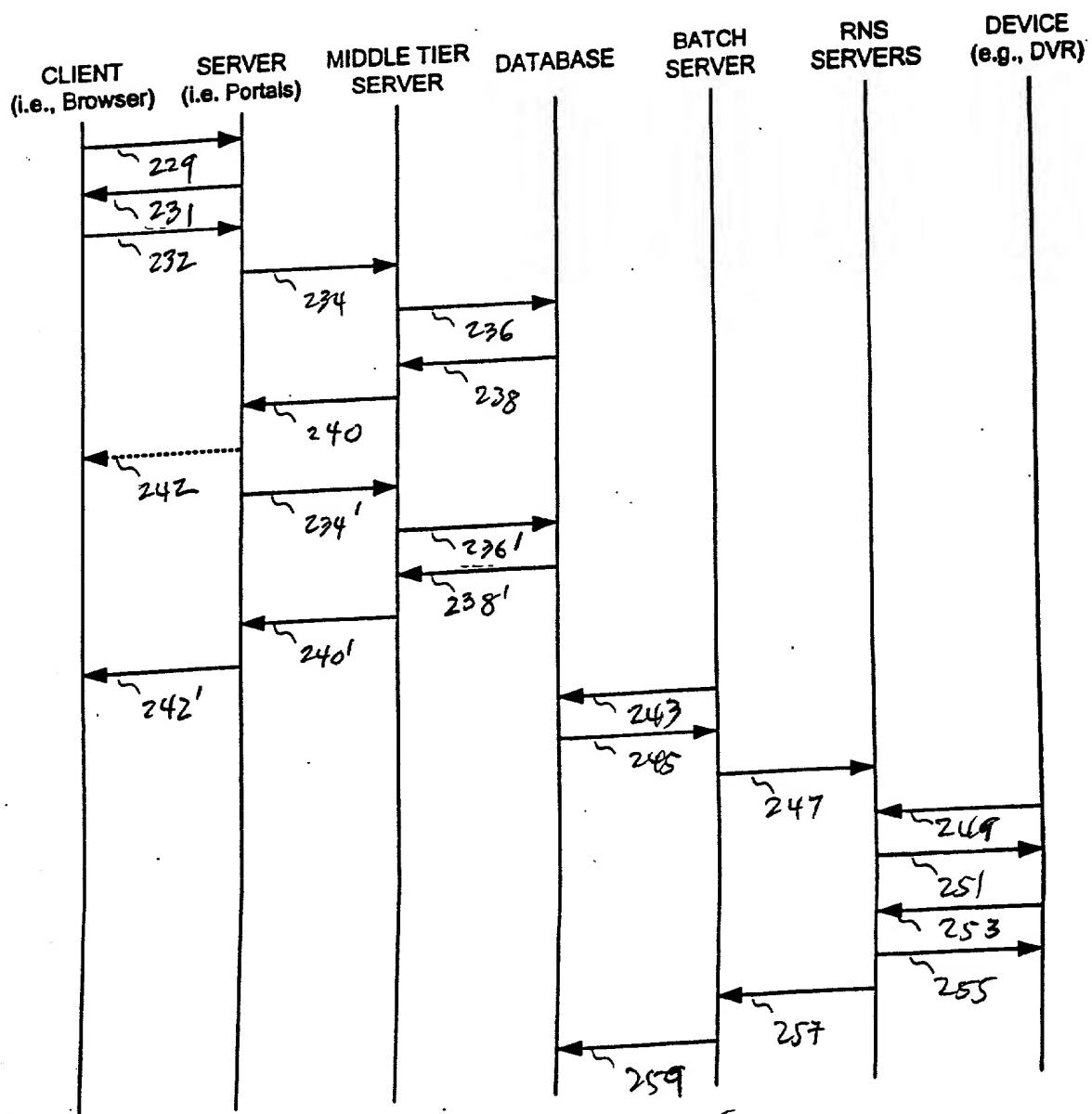


FIG. 13B

API Routine	Function
CreateAccount	Creates an account for a new user based on the information received
Login	Tries to authenticate a user based on the input username and password combination
GetProfile	Returns the profile of the user and his units based on his userid
AddRequest	Adds a request to the unit's list of pending requests based on a set of request parameters, and returns the full status of the unit and of the pending requests, including those for recording specified show(s) and deleting recorded show(s)
DeleteRequest	Delete a request from the user list of pending requests
GetReplayGuide	Returns the Replay Guide of the unit as saved in the appropriate database for the specified unit
GetChannelLineUp	Returns the channel lineup of the unit based on the unit's settings
ChangePassword	Lets the user changes his password
GetEPG	Returns the current electronic program guide for the unit based on the settings of the unit
ShowGuide	Returns detailed information about a specified show or search show details for particular shows based on criteria given as parameters

FIG. 14

API Routine	Input Parameters	Output Files (Corresponding XML elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, serialnumber, login, password, creator	ACCOUNT.XML REPLAYERROR.XML
Login	login, password	ACCOUNT.XML REPLAYERROR.XML
GetProfile	userId	PROFILE.XML (USERINFO, UNITINFO-1)
AddRequest	userId, unitId, reqtype(none, show, theme, update) reqtype=show: showtype(single, repeat, manual single, manual repeat), headendId, tmsId, device, startimegmt, name, durationInMinutes, Inputsource, quality, guaranteedRecord, numEpisodes, weekdayFlags, earlystartMinutes, showguardMinutes reqtype=theme: searchTerm, searchFlags, suzukiId, durationInMinutes, quality, guaranteedRecord reqtype=update: updateType(deleteShow, preserveShow, deleteChannel), channelId, showId	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-1) REPLAYERROR.XML *Note: REQUESTSTATUS Result:=(PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULE FAILURE, ROOM FAILURE)
DeleteRequest	userId, unitId, requestId	DELETERESULT.XML REPLAYERROR.XML
GetReplayGuide	userId, unitId	GUIDE.XML (REPLAYCHANNEL-1) REPLAYERROR.XML *Note: REPLAYCHANNEL Type:=(SINGLE, SINGLEMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEEXACT, ZONE)
GetChannelListUp	userId, unitId	CHANNELLISTUP.XML (CHANNEL-1) REPLAYERROR.XML
ChangePassword	userId, currentpassword, newpassword	ACCOUNT.XML REPLAYERROR.XML
GetEPG	userId, unitId, startimegmt, durationInMinutes, startChannel, channelCount	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML
ShowGuide	userId, unitId, query, start, count, levelOfDetail	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML
	*Note: query keywords include actor, advisory, desc, mpaaRating, title, etc.	

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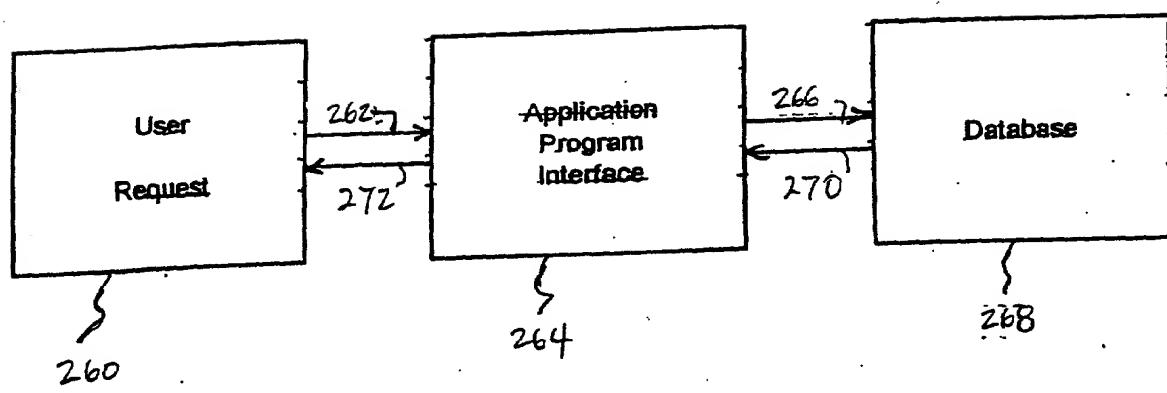


FIG. 16A

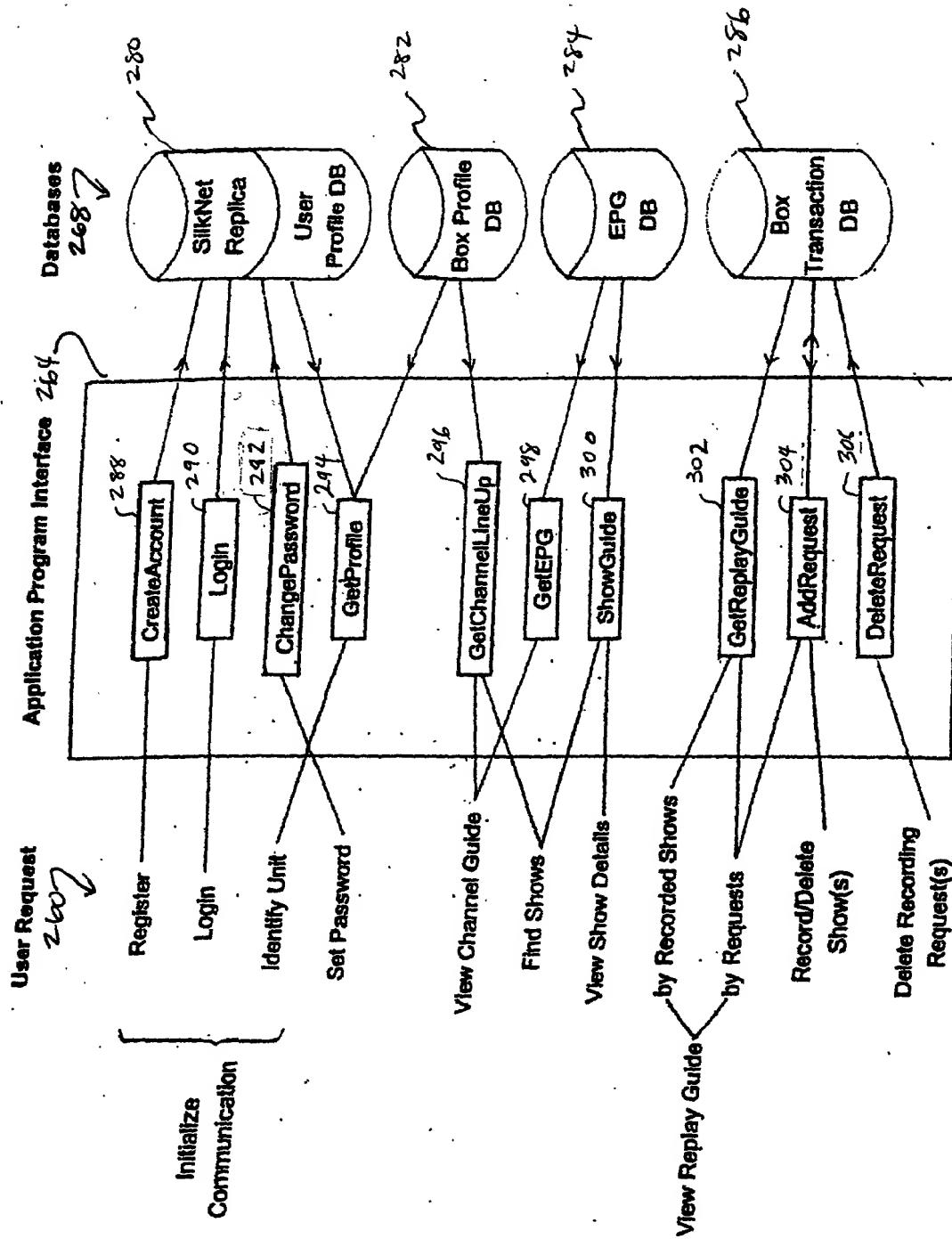


FIG. 16B

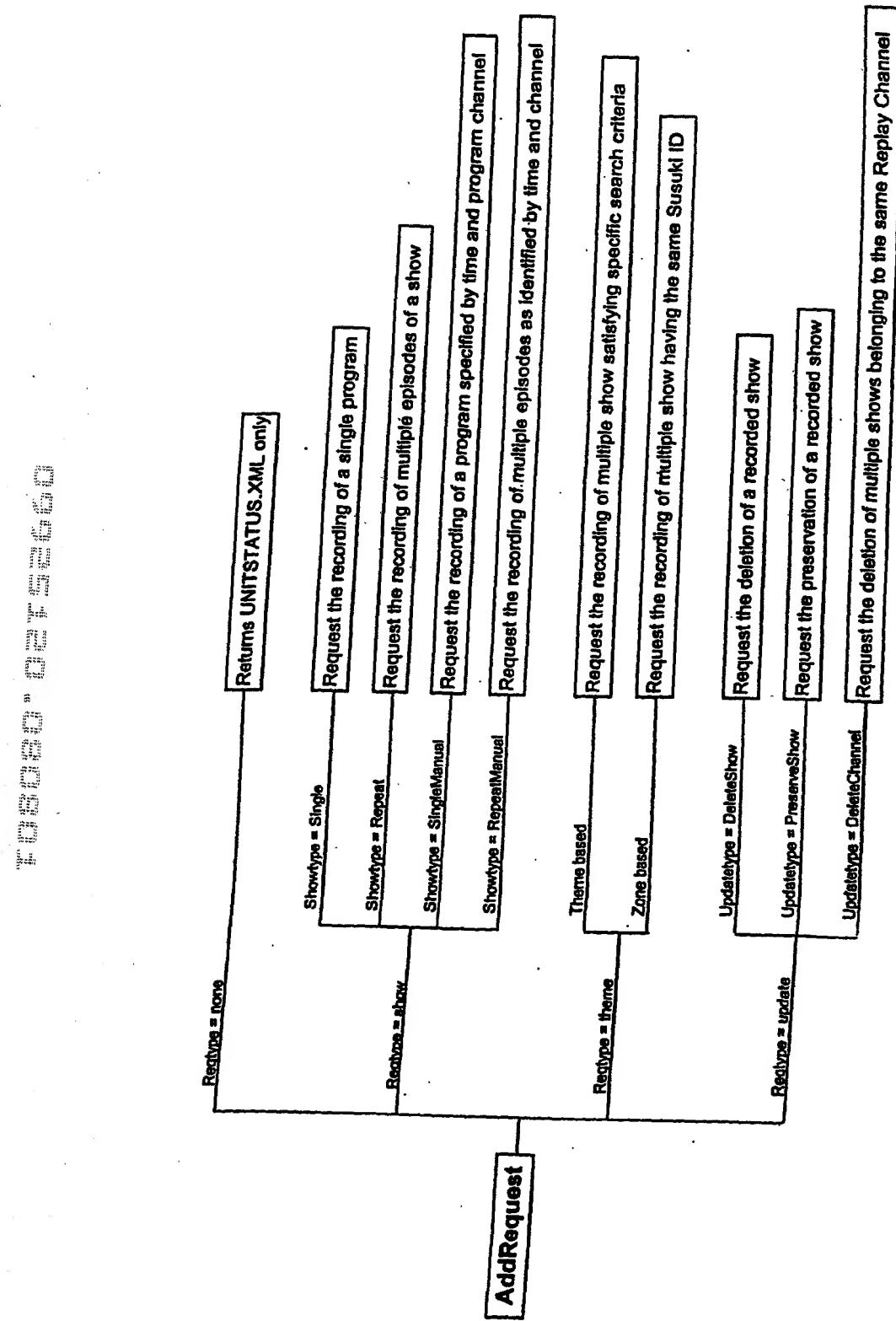


FIG. 17

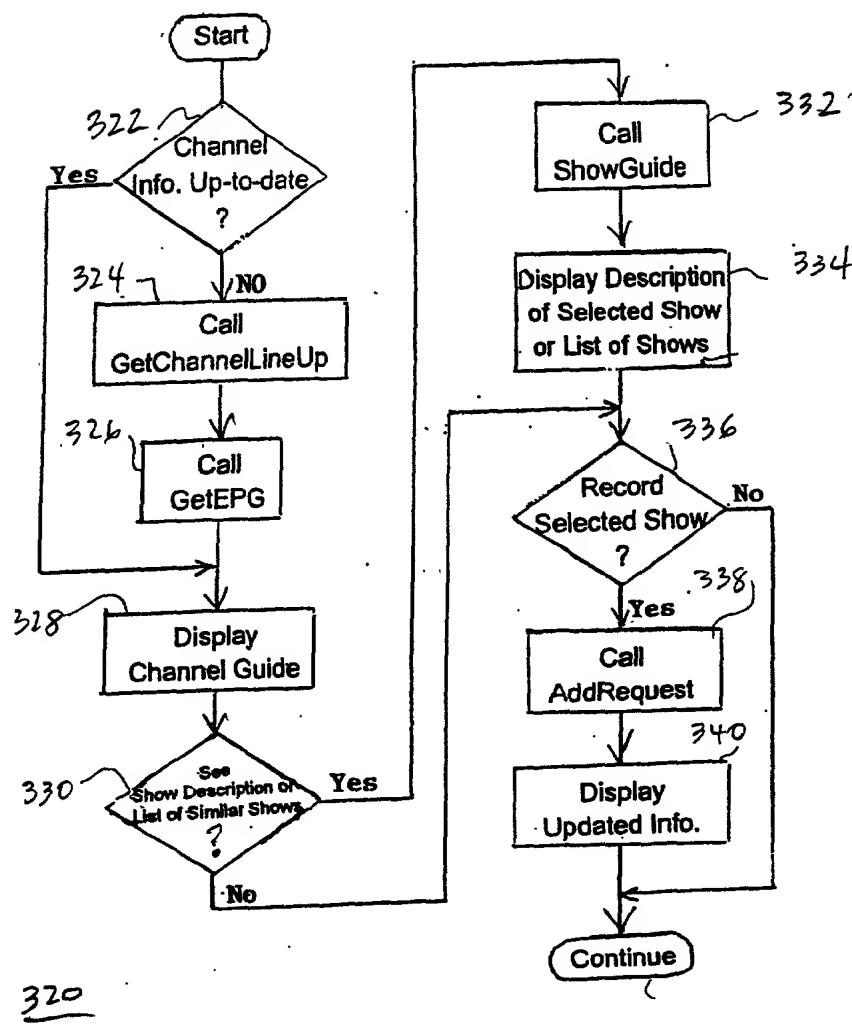
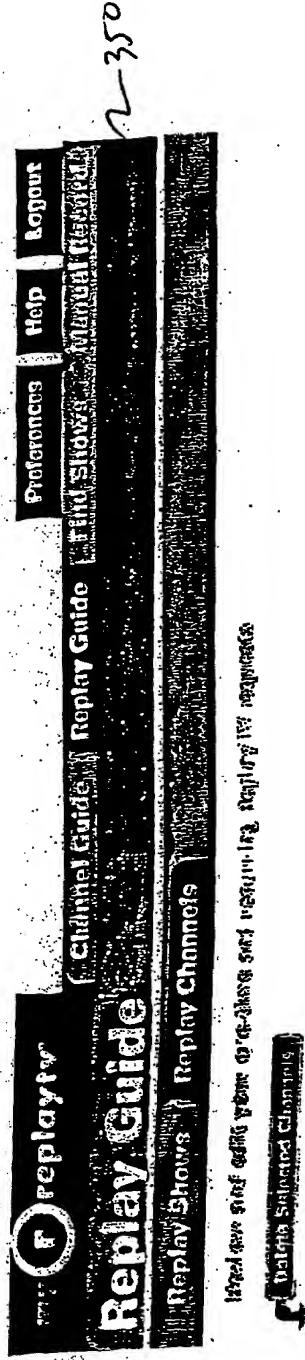


FIG. 18



Channel	Details	Status	Request Date
<input type="checkbox"/> A Fistful of Dollars	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21(TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.	02/18	
<input type="checkbox"/> Blown Away	This single record Replay channel was scheduled to record Blown Away from Channel 42(USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.	01/16	
<input type="checkbox"/> Cantonese News	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonese News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8(KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality.	02/28	
<input type="checkbox"/> Captain January	This single record Replay channel was scheduled to record Captain January from Channel 49(AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.	01/09	

FIG. 19A



Channel	Show Title/Episode	Date/Time	Station	Duration	Size
A Fistful of Dollars	<input type="checkbox"/> A Fistful of Dollars 02/18 7:00AM	21 TBS	(2h)	6.46%	
Blown Away	<input checked="" type="checkbox"/> Blown Away 01/16 9:00PM	42 USAP	(2h 30m)	8.07%	
Captain January	<input checked="" type="checkbox"/> Captain January 01/09 3:30AM	49 AMC	(1h 30m)	4.84%	
Firewalker	<input checked="" type="checkbox"/> Firewalker 02/27 8:00PM	21 TBS	(2h)	6.46%	
On Deadly Ground	<input checked="" type="checkbox"/> On Deadly Ground 01/07 9:00PM	4 KRON	(2h)	6.46%	
Platoon	<input type="checkbox"/> Platoon 02/04 8:00PM	37 TNTP	(2h 30m)	8.07%	
The Bridge on the River Kwai	<input checked="" type="checkbox"/> The Bridge on the River Kwai 12/24 8:00AM	42 USAP	(3h 30m)	11.30%	
The Little Princess	<input type="checkbox"/> The Little Princess 12/26 4:15AM	49 AMC	(1h 45m)	5.65%	
The Trouble With Harry	<input checked="" type="checkbox"/> The Trouble With Harry 12/18 1:05PM	49 AMC	(1h 55m)	6.19%	
Welcome to ReplayTV	<input checked="" type="checkbox"/> Welcome to ReplayTV 09/08 10:49AM		(15m)	2.42%	

FIG. 19B

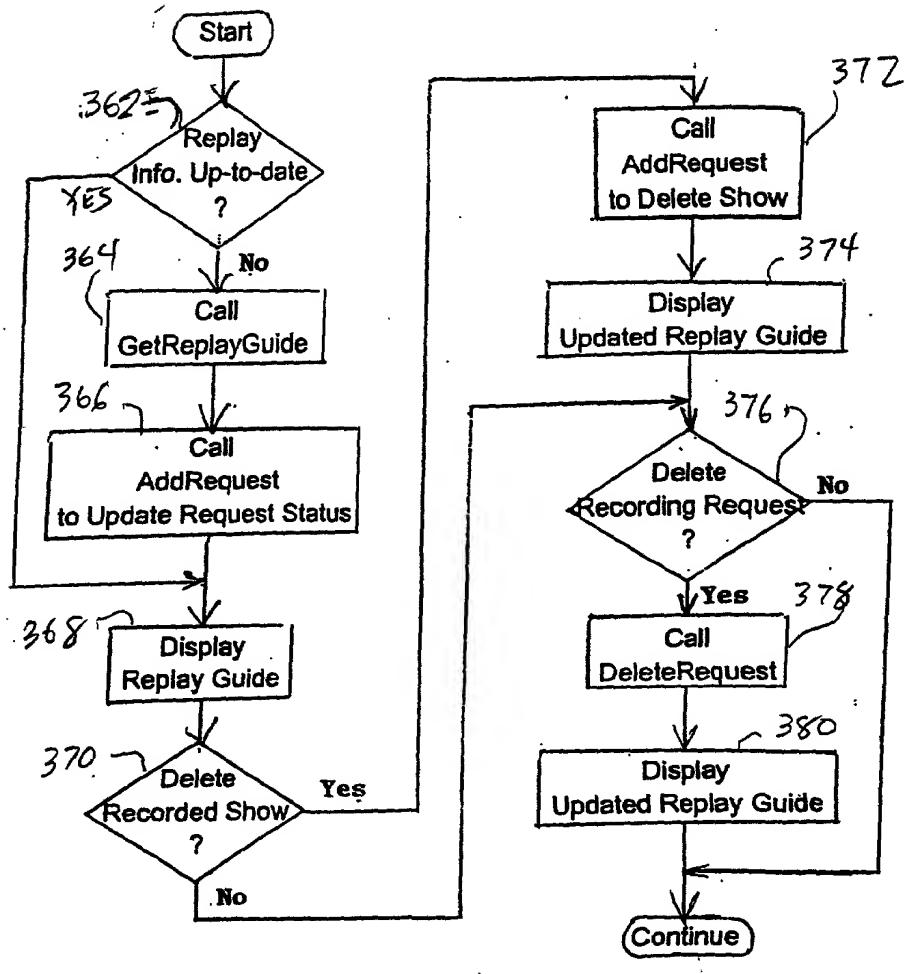


FIG. 20

360

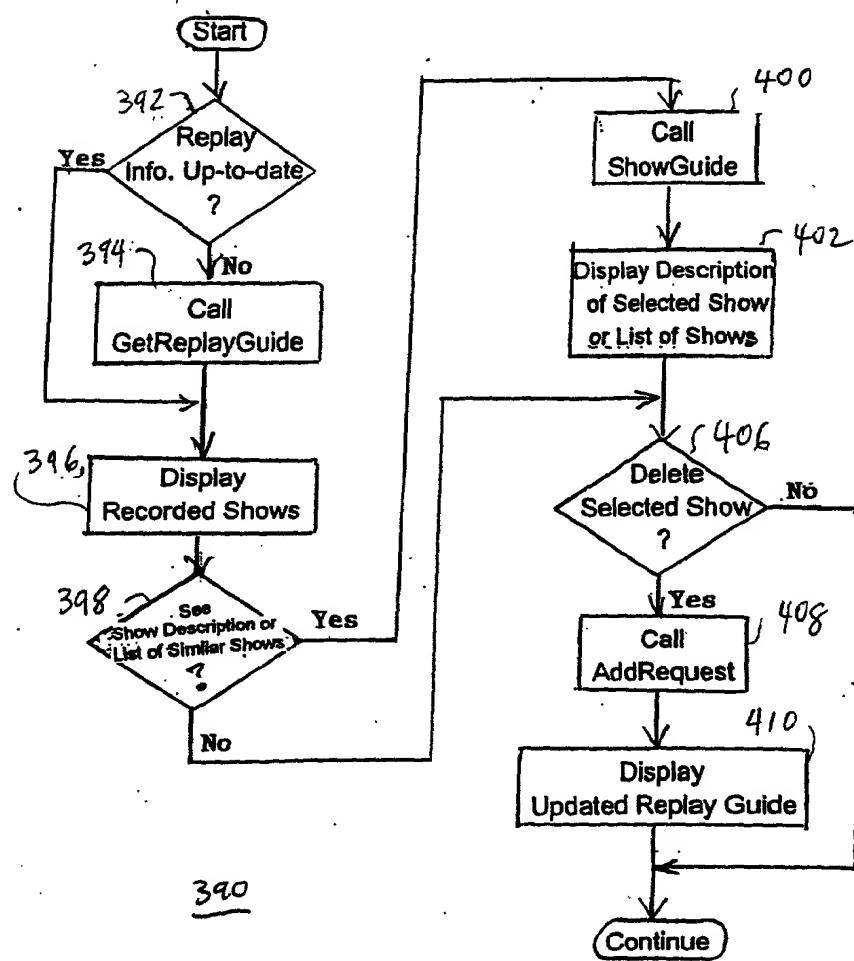
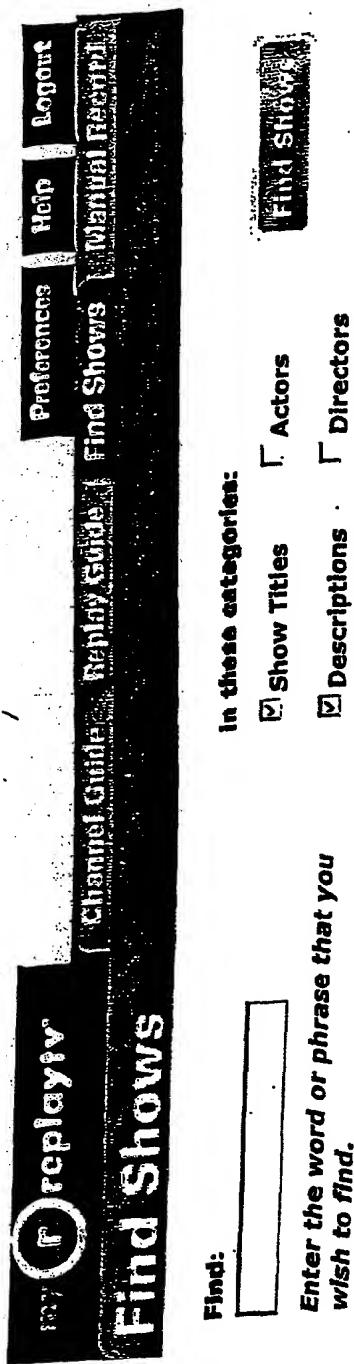


FIG. 21



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FIG. 22

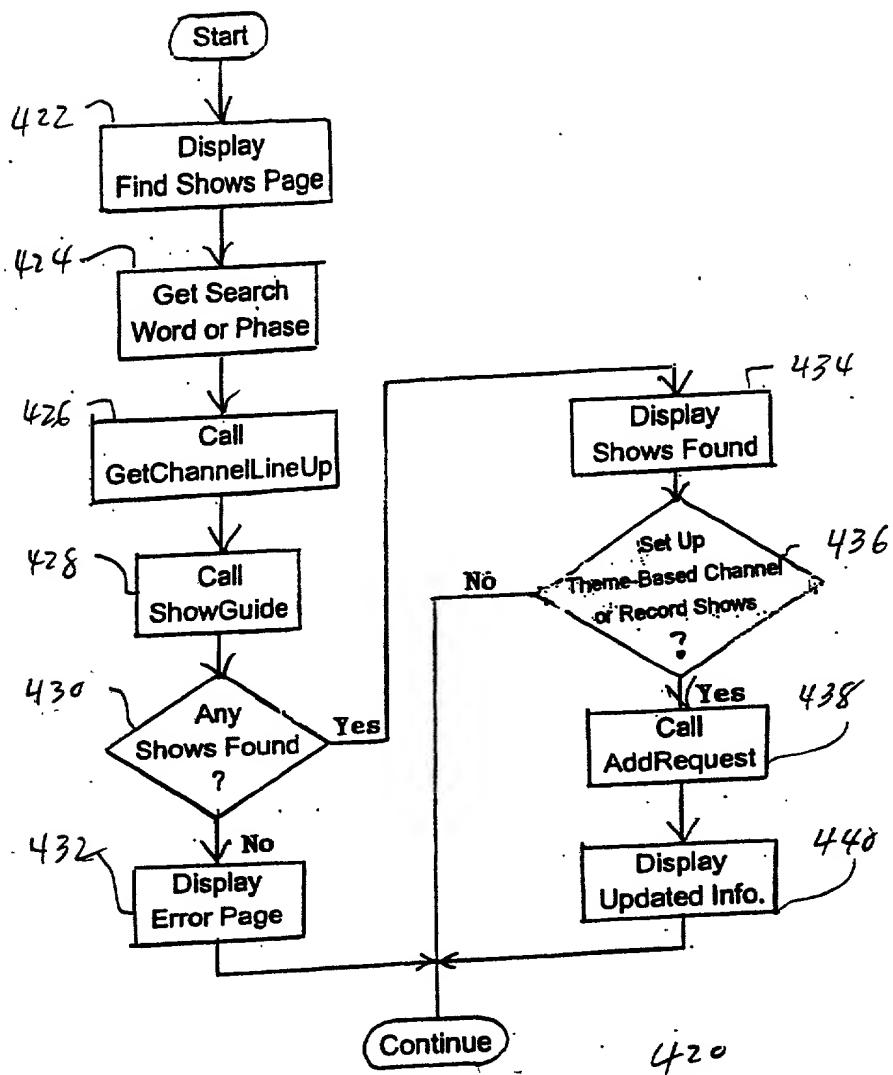


FIG. 23

ReplayTV

Logout | Manual Record

Preferences | Help | Find Shows

Channel Guide | Replay Guide

Manual Record

Recording duration:

Start Date  |

Start Time  :  AM |

End Time  :  AM |

Channel  |

Quality  Extended |

Guaranteed  Yes |

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FIG. 24A

my replaytv Channel Guide Find Shows Manual Record Replay Guide preferences help logout

3h 45m available at medium quality as of last connection

## Manual Record

Single Recording Repeat Recording

Days  Mon  Tue  Wed  Thu  Fri  Sat  Sun

Start Time 7 : 58 PM ▾

End Time 11 : 02 PM ▾

Channel 4 KRON ▾

Quality Standard ▾

Guaranteed Yes ▾

Submit Request

452

FIG. 24B

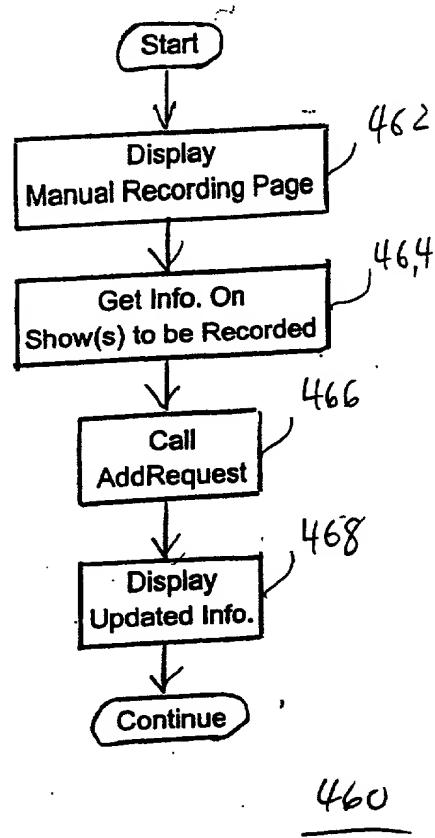


Fig. 25

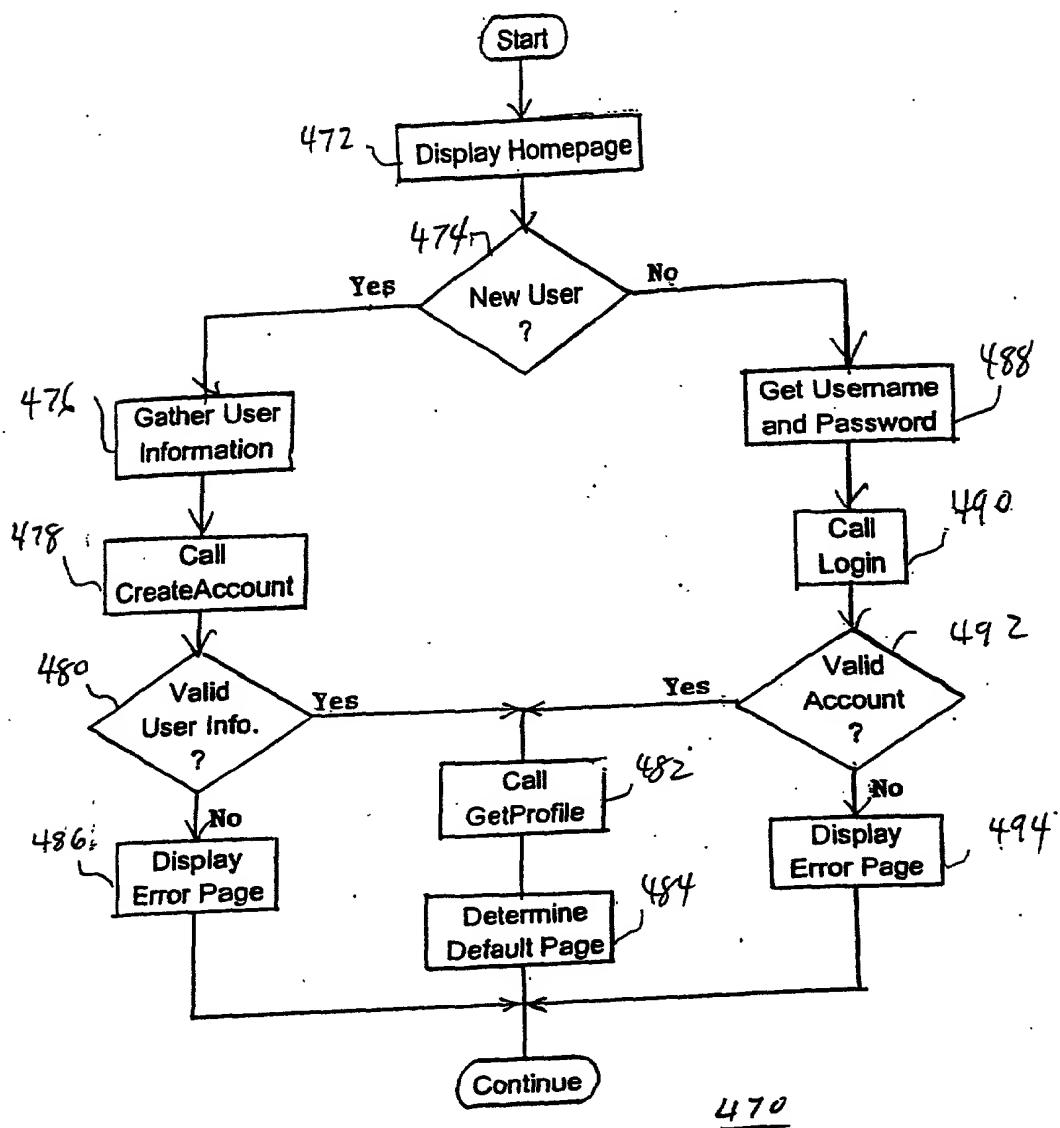


FIG. 26

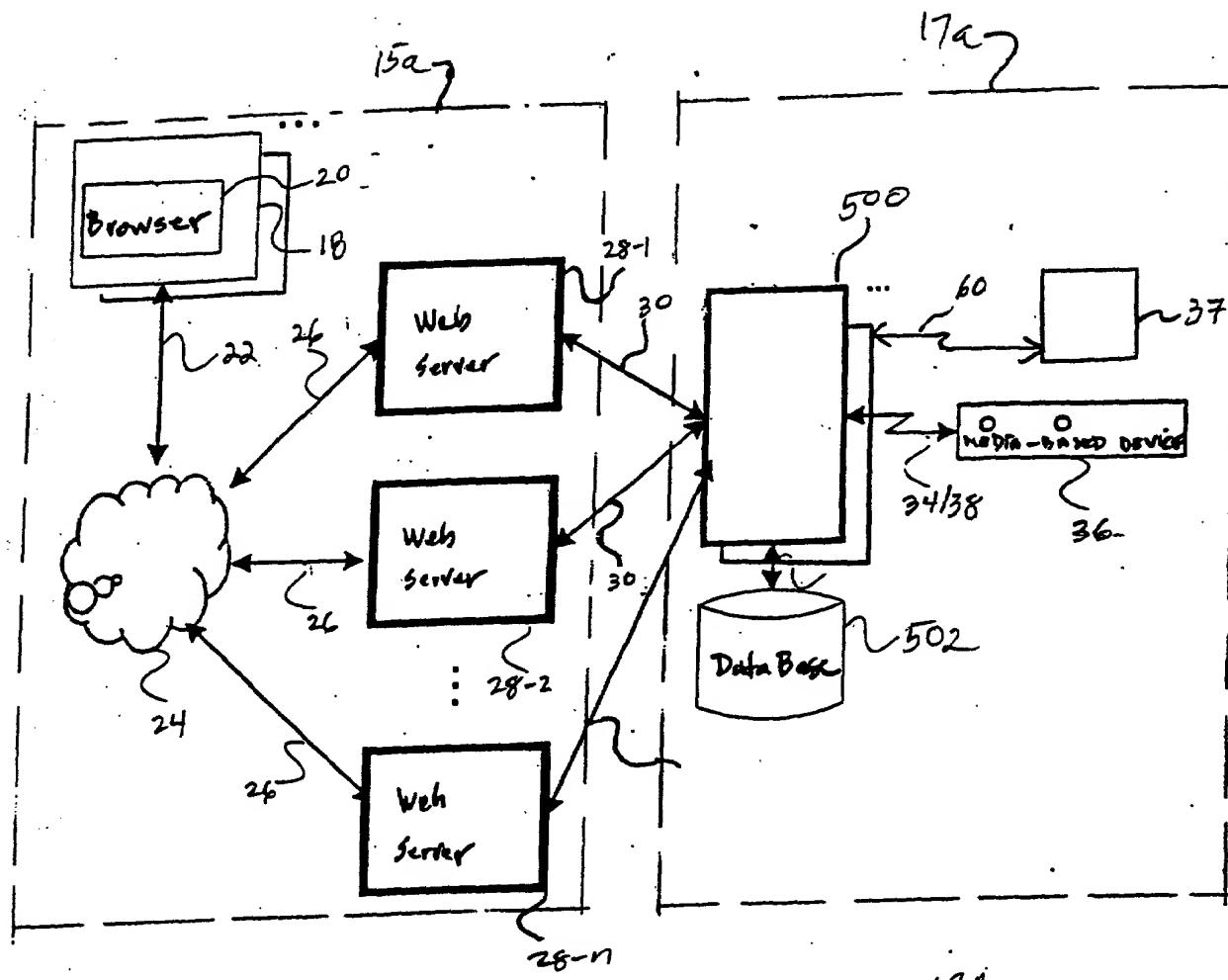


FIG. 27

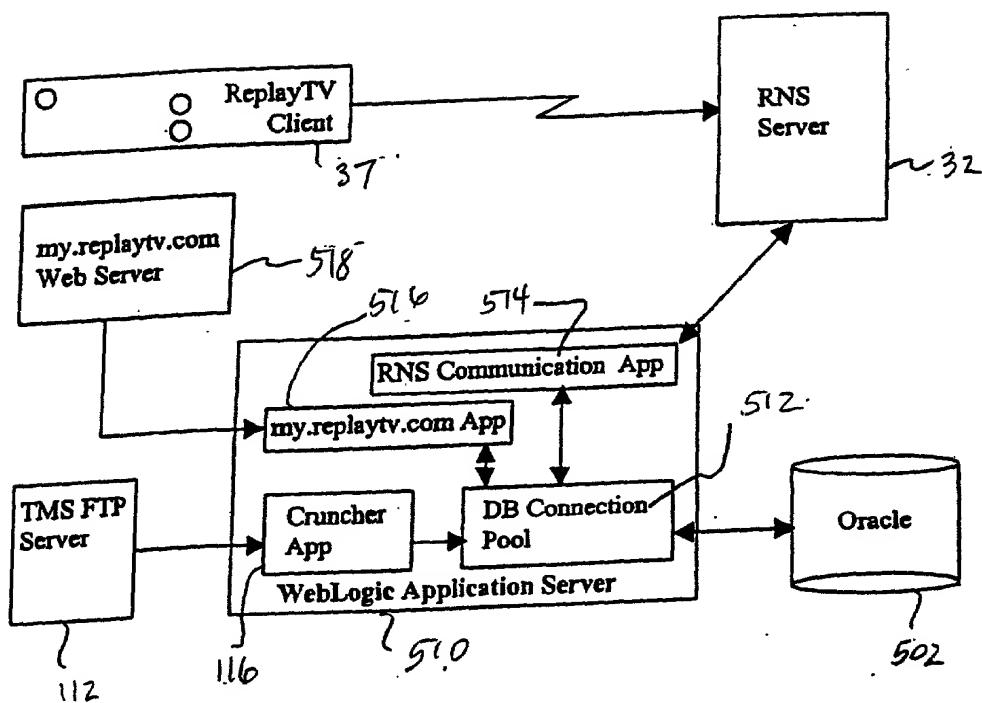


FIG. 28

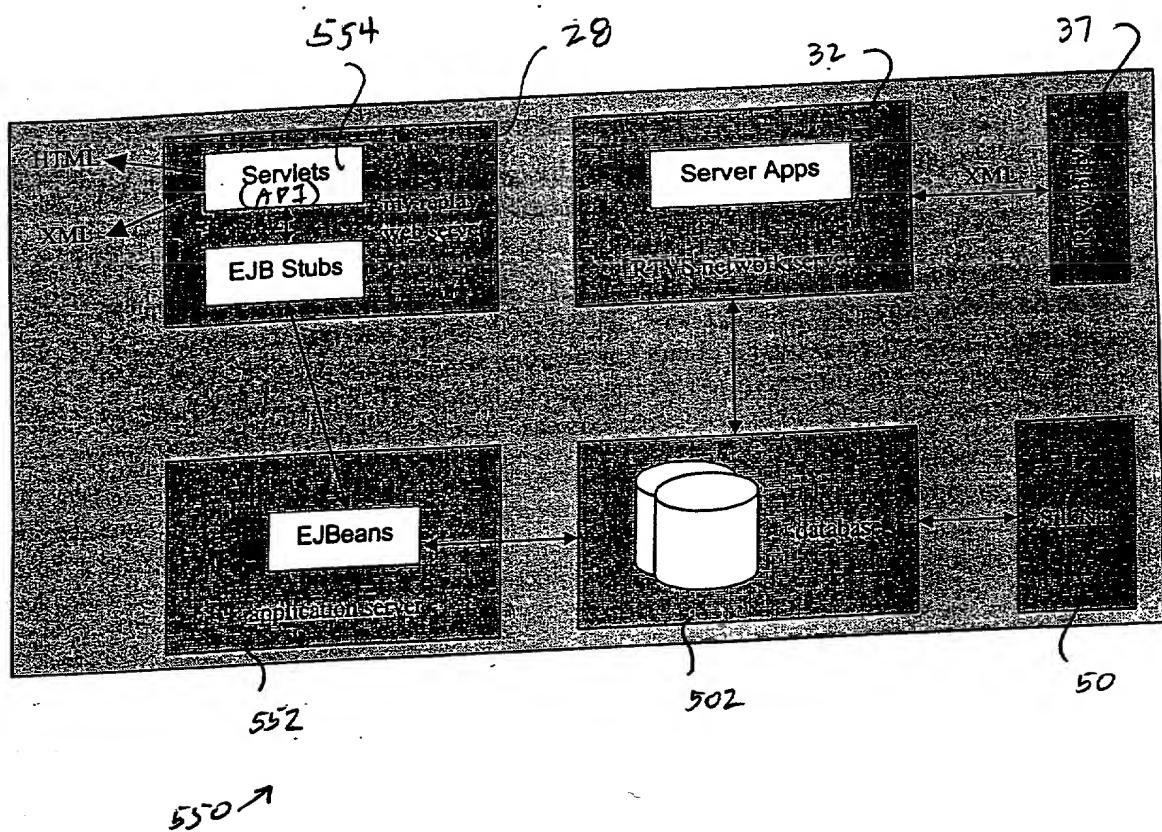


FIG. 29

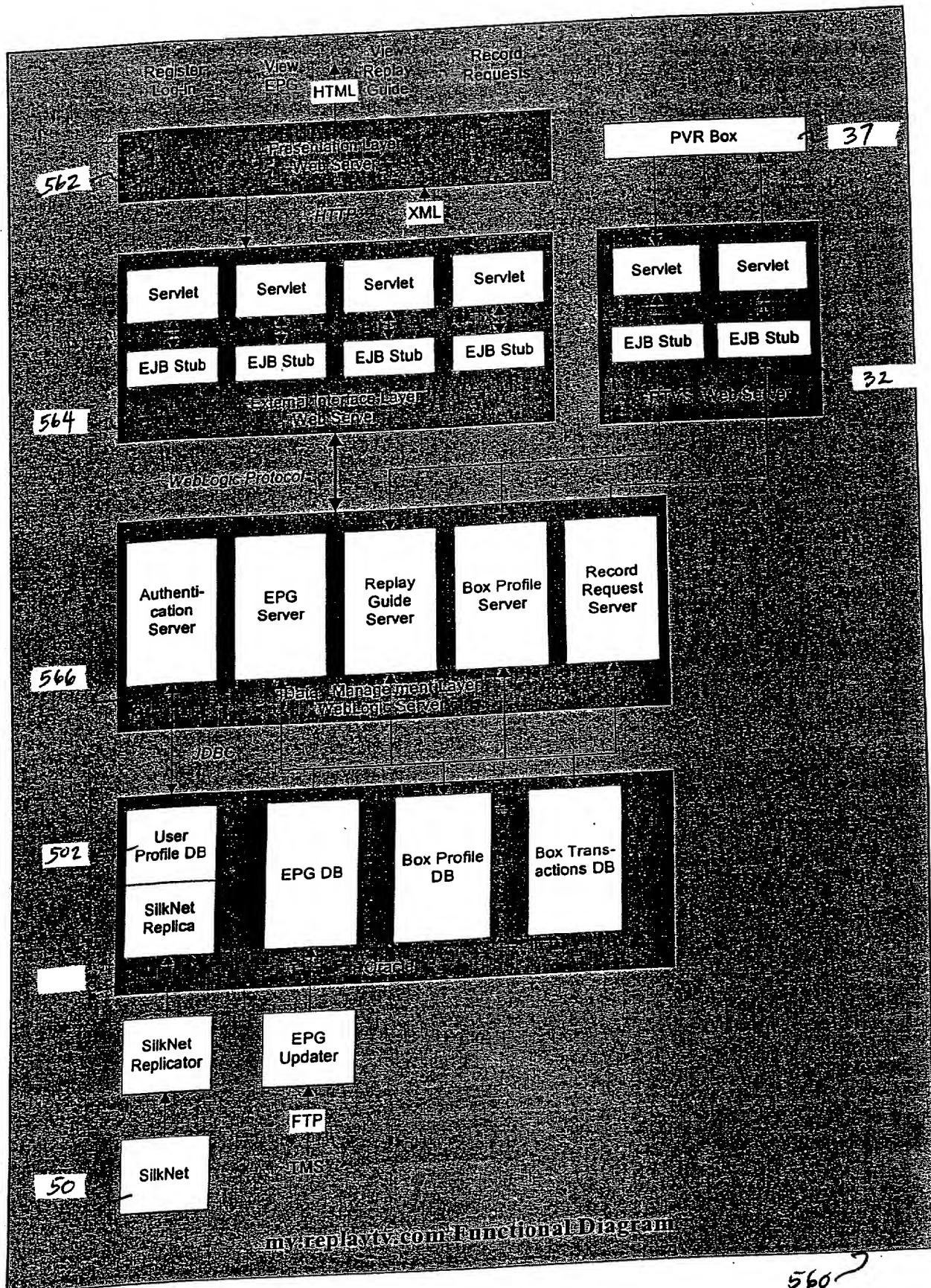


FIG. 30

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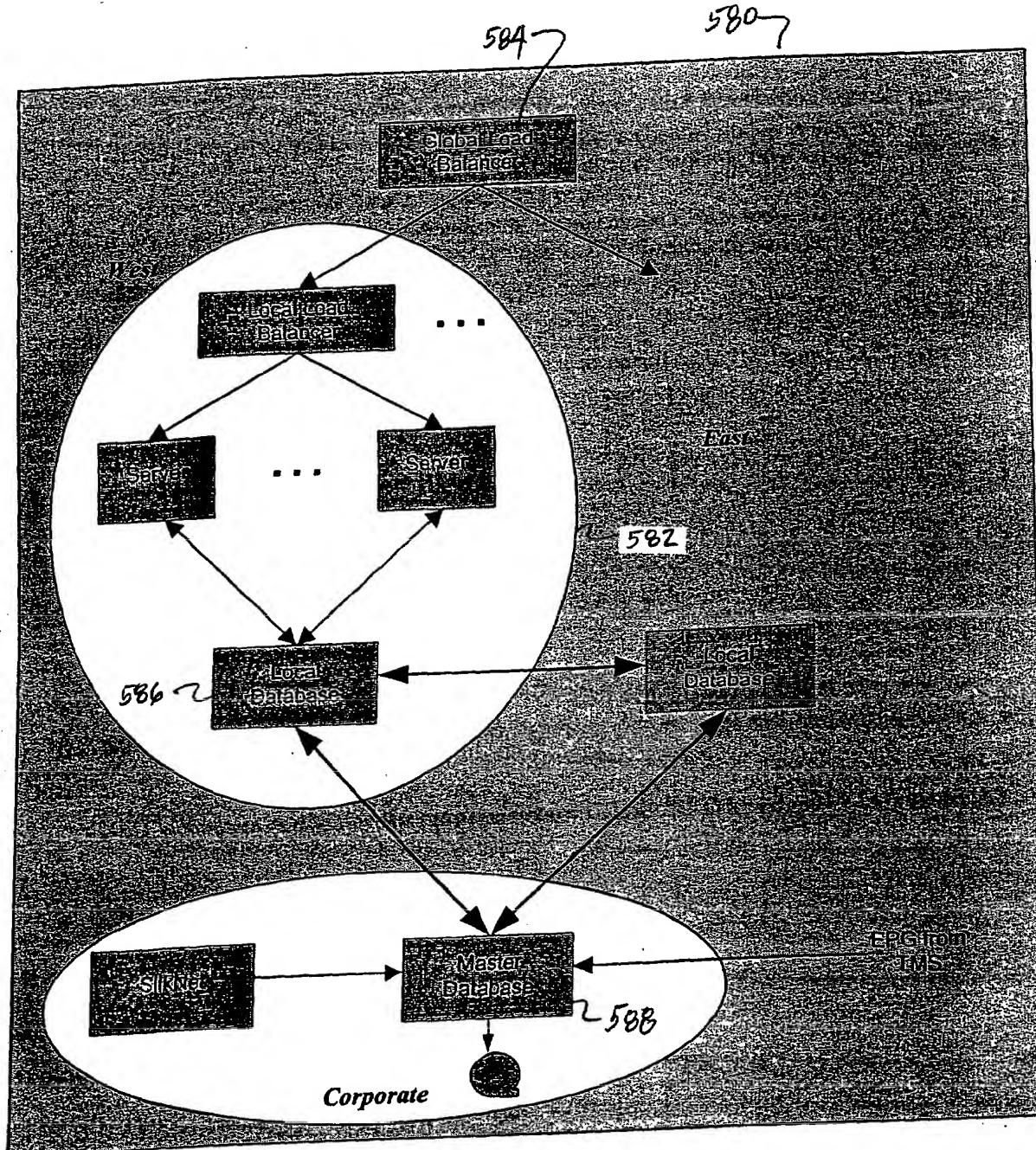


FIG. 31